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MINUTES.

Stated Meeting, January 6, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of:

Prof. Charles Otis Whitman, at Chicago, on December 6, 1910,
æt. 68.

Hon. Joel Cook, at Philadelphia, on December 15, 1910, æt. 68.

M. Georges Bertin, at Paris, on December 22, 1910, æt. 63.

Prof. Charles E. Munroe, of Washington, read a paper on "The Investigation of Explosives at the Pittsburgh Testing Station," which was discussed by Dr. Holland, Mr. d'Inwilliers, Dr. Chance, Prof. Keller and Mr. Jayne.

The Judges of the Annual Election of Officers and Councillors held on this day between the hours of two and five in the afternoon reported that the following named persons were elected, according to the Laws, Regulations and Ordinances of the Society, to be the officers for the ensuing year.

President:

William W. Keen.

Vice-Presidents:

William B. Scott, Albert A. Michelson, Edward C. Pickering.

Secretaries:

I. Minis Hays,
Amos P. Brown.

James W. Holland,
Arthur W. Goodspeed,

Curators:

Charles L. Doolittle, William P. Wilson, Leslie W. Miller.

Treasurer:

Henry La Barre Jayne.

Councillors:

(*To serve for three years.*)

Henry F. Osborn,

Edward W. Morley,

Joseph G. Rosengarten,

Henry H. Donaldson.

Stated Meeting, February 3, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Prof. William B. Scott read a paper on "The Mammals, Past and Present, of the Western Hemisphere," which was discussed by Mr. Willcox and Dr. Jastrow.

Stated Meeting, March 3, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

An invitation was received from the Royal Frederic University to be represented by a delegate at the Centennial of the founding of the University, to be celebrated at Christiania on September 5 and 6, 1911.

The decease was announced of:

Richard Lewis Ashhurst, at Atlantic City, on January 30, 1911, æt. 72.

Jakob Heinrich Van 't Hoff, at Berlin, on March 2, 1911, æt. 59.

Prof. F. M. Jaeger, of the University of Gröningen, read a paper on "Fluid Crystals and Bi-refrangent Liquids," which was discussed by Prof. Learned, Prof. Doolittle and Prof. Goodspeed.

Stated Meeting, April 7, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The following invitations were received:

From the Verein für Naturkunde zu Cassel, to be represented at the 75th anniversary of its founding, on April 23, 1911.

From the Société de Roubaix, to be represented at the 30th Congrès National des Sociétés Françaises de Géographie to be opened at Roubaix on July 29, 1911.

The decease was announced of:

Benjamin Chew Tilghman, at Philadelphia, on March 6, 1911, æt. 49.

Heber S. Thompson, at Pottsville, Pa., on March 9, 1911, æt. 70.

Henry Pickering Bowditch, M.D., at Jamaica Plain, Mass., on March 13, 1911, æt. 71.

Samuel Franklin Emmons, at Washington, on March 28, 1911, æt. 70.

Rear-Admiral George W. Melville read a paper on "A Century of Steam Navigation," which was discussed by Mr. Willcox, Prof. Doolittle and Mr. Jayne.

Mr. Joseph Willcox offered some remarks on "Remains of Glyptodon found in Florida," and also on "Teeth of Zeuglodon from Wilmington, N. C."

General Meeting, April 20, 21, and 22, 1911.

Thursday, April 20. Opening Session—2 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of:

Charles A. Oliver, M.D., at Philadelphia, on April 8, 1911, æt. 56.

Henry Pemberton, at Philadelphia, on April 11, 1911, æt. 84.

The following papers were read:

"Notes on Cannon: Fourteenth and Fifteenth Centuries," by Charles E. Dana, Philadelphia; discussed by Dr. Keen.

"Rise in the Cost of Living in the Twelfth Century and its Effects," by Dana C. Munro, Professor of European History, University of Wisconsin.

"Elizabethan Physicians," by Felix E. Schelling, Professor of English Literature, University of Pennsylvania.

- "Moreau de St. Méry: One of Our Forgotten Members," by J. G. Rosengarten, Philadelphia; discussed by Prof. Cleveland Abbe and Mr. Sachse.
- "The Relations of the United States to International Arbitration," by Hon. Charlemagne Tower, Philadelphia.
- "The Early German Immigrant and the Immigration Question of To-day," by M. D. Learned, Professor of German, University of Pennsylvania; discussed by Prof. Henry F. Osborn.
- "On the Solution of Linear Differential Equations by Successive Approximations," by Preston A. Lambert, Professor of Mathematics, Lehigh University, Bethlehem.
- "Generalizations of the Problem of Several Bodies, its Inversion, and an Introductory Account of Recent Progress in its Solution," by Edgar Odell Lovett, President of the Rice Institute, Houston, Texas.
- "On the Totality of the Substitutions on n Letters which are Commutative with Every Substitution of a Given Group on the Same Letters," by Geo. A. Miller, Professor of Mathematics, University of Illinois. (Introduced by Prof. C. L. Doolittle.)
- "Report on the Second Conference of the International Catalogue of Scientific Literature," by Leonard C. Gunnell, of the Smithsonian Institution (introduced by Dr. Cyrus Adler); discussed by Prof. Henry F. Osborn.

Friday, April 21. Executive Session—10 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Mr. Charles Francis Brush, a recently elected member, signed the Laws and was admitted into the Society.

The Proceedings of the Officers and Council were submitted.

Morning Session—10.05 o'clock.

EDWARD C. PICKERING, LL.D., F.R.S., Vice-President, in the Chair.

The following papers were read:

- "Study of the Tertiary Floras of Atlantic and Gulf Coastal Plain," by Edward W. Berry, Associate in Palæontology, Johns Hopkins University (introduced by Dr. J. W. Harshberger); discussed by Prof. Harshberger and Sir John Murray.
- "The Desert Group Nolineæ," by William Trelease, Director of the Missouri Botanical Garden, St. Louis.
- "The Blueberry and Its Relation to Acid Soils," by Frederick V. Coville, Botanist U. S. Department of Agriculture (introduced by Dr. J. W. Harshberger); discussed by Dr. Harshberger and Dr. W. P. Wilson.
- "The New Cosmogony."
- "The Extension of the Solar System beyond Neptune and the Connection Existing Between Planets and Comets."
- "The Secular Effects of the Increase of the Sun's Mass upon the Mean Motions, Major Axes and Eccentricities of the Orbits of the Planets," by T. J. J. See, U. S. Naval Observatory, Mare Island, Cal.
- "Extension of Our Knowledge of the Atmosphere," by A. Lawrence Rotch, Professor of Meteorology, Harvard University (introduced by Prof. W. M. Davis); discussed by Prof. W. M. Davis.
- "175 Parabolic Orbits and other Results deduced from over 6200 Meteors," by C. P. Olivier, of Charlottesville, Va. (Introduced by Prof. Cleveland Abbe.)
- "The Solar Constants of Radiation," by Charles G. Abbot, Director of the Astrophysical Observatory, Smithsonian Institution, Washington. (Introduced by Dr. Charles D. Walcott.)
- "Some Curiosities in the Motions of Asteroids," by Ernest W. Brown, Professor of Mathematics, Yale University.
- "Spectroscopic Proof of the Repulsion by the Sun of Gaseous Molecules in the Tail of Halley's Comet," by Percival Lowell, Director of Lowell Observatory, Flagstaff, Ariz.
- "Self-Luminous Night Haze," by Edward E. Barnard, Astronomer, Yerkes Observatory, Williams Bay, Wis.

- "Some Peculiarities in the Motions of the Stars," by W. W. Campbell, Director of Lick Observatory, Mt. Hamilton, Cal.; discussed by Dr. See, Prof. Pickering and Dr. C. G. Abbot.

Afternoon Session—2 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

- "Shore and Off-Shore Deposits of Silurian Age in Pennsylvania," by Gilbert Van Ingen Assistant Professor of Geology, Princeton University (introduced by Prof. W. B. Scott); discussed by Prof. W. M. Davis.
- "Tertiary Formations of Northwestern Wyoming," by William J. Sinclair, Instructor in Geology, Princeton University. (Introduced by Prof. William B. Scott.)
- "On a New Phytosaur from the Triassic of Pennsylvania," by William B. Scott, Professor of Geology and Palæontology, Princeton University.
- "Alimentation of Existing Continental Glaciers," by William H. Hobbs, Professor of Geology, University of Michigan, Ann Arbor.
- "On the Formation of Coal Beds," by J. J. Stevenson, Emeritus Professor of Geology, University of the City of New York.
- "Problems in Petrology," by Joseph P. Iddings, U. S. Geological Survey, Washington. (Introduced by Dr. Keen.)
- "Front Range of the Rocky Mountains in Colorado," by William Morris Davis, Professor of Geology, Harvard University, Cambridge.
- "Supposed Recent Subsidence of the Atlantic Coast," by Douglas W. Johnson, Assistant Professor of Physiography, Harvard University (introduced by Prof. Wm. Morris Davis); discussed by Dr. See, Mr. Willcox and Prof. H. F. Reid.
- "Relation of Isostasy to the Elevation of Mountains," by Harry Fielding Reid, Professor of Geological Physics, Johns Hopkins University; discussed by Prof. Iddings, Prof. W. M. Davis, Dr. See and Prof. Reid.
- "The Transpiration of Air Through a Partition of Water."

"Elliptic Interference with Reflecting Gratings," by Carl Barus, Professor of Physics, Brown University, Providence.

"A Phenomenon of Vision."

"On Disruptive Discharges of Electricity through a Flame," by Francis E. Nipher, Professor of Physics, Washington University, St. Louis; discussed by Prof. J. McKeen Cattell.

"The High Voltage Corona in Air," by John B. Whitehead, Professor of Applied Electricity, Johns Hopkins University. (Introduced by Prof. Joseph S. Ames.)

"Nature and Causes of Embryonic Differentiation," by Edwin G. Conklin, Professor of Zoölogy, Princeton University.

"The Origin and Significance of the Primitive Nervous System," by George H. Parker, Professor of Zoölogy, Harvard University. (Introduced by Dr. H. H. Donaldson.)

Evening Session.

Prof. Svante Auguste Arrhenius, of Stockholm, gave an illustrated lecture on

"The Physical Conditions of the Planet Mars."

Saturday April 22. Executive Session—9.30 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Pending nominations for membership were read and the polls were opened. Secretaries Holland and Brown, tellers, subsequently reported that the following nominees had been elected to membership:

Residents of the United States.

George A. Barton, A.M., Ph.D., Bryn Mawr, Pa.

Bertram Borden Boltwood, Ph.D., New Haven, Conn.

Lewis Boss, A.M., LL.D., Albany, N. Y.

John Mason Clarke, Ph.D., LL.D., Albany, N. Y.

W. M. Late Coplin, M.D., Philadelphia.

John Dewey, Ph.D., LL.D., New York City.

Leland Ossian Howard, Ph.D., Washington, D. C.

Joseph P. Iddings, Sc.D. (Yale, 1907), Chicago.

Alba B. Johnson, Rosemont, Pa.

Arthur Amos Noyes, Ph.D., Sc.D., LL.D., Boston.

George Howard Parker, S.D., Cambridge, Mass.

A. Lawrence Rotch, S.B., A.M. (Hon. Harvard), Boston.

Leo S. Rowe, Ph.D., LL.D., Philadelphia.

William T. Sedgwick, Ph.D., Hon. Sc.D. (Yale, 1909), Brookline, Mass.

Augustus Trowbridge, Ph.D. (Berlin), Princeton, N. J.

Foreign Residents.

Svante Auguste Arrhenius, Stockholm.

Jean Baptiste Edouarde Bornet, Paris.

Sir John Murray, K.C.B., F.R.S., LL.D., Sc.D., Edinburgh.

Morning Session—10 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

"Taking a Census of the Chemical Industries," by Charles E. Munroe, Professor of Chemistry, George Washington University, Washington.

"Some Recent Results in Connection with the Power of Solutions to Absorb Light," by Harry C. Jones, Professor of Physical Chemistry, Johns Hopkins University.

"The Properties of Salt Solutions in Relation to the Ionic Theory," by Arthur A. Noyes, Professor of Theoretical Chemistry, Massachusetts Institute of Technology (introduced by Dr. James W. Holland); discussed by Prof. Arrhenius.

"The Atomic Weight of Vanadium," by Gustavus Hinrichs, of St. Louis. (Introduced by Prof. Amos P. Brown.)

"Quinazolone Azo Dyestuffs: A new Group of Azo Dyes," by Marston Taylor Bogert, Head of School of Chemistry, Columbia University, New York.

"The Secretion of the Adrenal Glands During Emotional Excitement," by Walter B. Cannon, Professor of Physiology, Harvard University; discussed by Dr. Keen and Prof. Cattell.

"Phylogenetic Association in Relation to the Emotions," by

- George Crile, Professor of Clinical Surgery, Western Reserve University, Cleveland; discussed by Dr. Keen.
- "On Coagulation of the Blood," by William H. Howell, Professor of Physiology, Johns Hopkins University; discussed by Dr. Keen and Prof. Pickering.
- "Abnormal Forms of Life and Their Application," by Alexis Carrel, Associate Member of the Rockefeller Institute for Medical Research, New York; discussed by Dr. Leo Loeb, Prof. Minot and Dr. Keen.
- "The Cyclic Changes in the Mammalian Ovary," by Leo Loeb, Director of the Pathological Department, St. Louis Skin and Cancer Hospital.
- "The Origin of the Porpoises of the Family Delphinidæ," by F. W. True, Head Curator, Department of Biology, U. S. National Museum, Washington, D. C.
- "Helios and Saturn," by Morris Jastrow, Jr., Professor of Semitic Languages, University of Pennsylvania.
- "On the Religion of the Sikhs," by Maurice Bloomfield, Professor of Sanskrit and Comparative Philology, Johns Hopkins University.
- "An Ancient Protest Against the Curse on Eve," by Paul Haupt, Professor of Shemitic Languages, Johns Hopkins University.
- "Theories of Totemism," by E. Washburn Hopkins, Professor of Sanskrit, Yale University.
- "The New History," by James H. Robinson, Professor of History, Columbia University, New York (introduced by Prof. Cheyney); discussed by Prof. Bloomfield and Haupt.
- "Eggettes: a Conservation of Fuel," by Robert P. Field, of Philadelphia; discussed by Prof. Houston and Dr. See.

Afternoon Session—2 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Prof. Leslie W. Miller, on behalf of the subscribers presented a portrait of Thomas Hopkinson, first President of the American Philosophical Society.

Symposium on Modern Views of Matter and Electricity.

"The Fundamental Principles," by Daniel F. Comstock, Assistant Professor of Theoretical Physics, Massachusetts Institute of Technology. (Introduced by Prof. W. F. Magie.)

"Radioactivity," by Bertram B. Boltwood, Professor of Radio-Chemistry, Yale University.

"Dynamical Effects of Aggregates of Electrons," by Owen W. Richardson, Professor of Physics, Princeton University.

"The Constitution of the Atom," by H. A. Wilson, F.R.S., Professor of Physics, McGill University, Montreal (introduced by Prof. Magie); discussed by Profs. Magie, Webster, Heyl, Arrhenius, Pickering and C. L. Doolittle.

Prof. Bertram B. Boltwood.

Prof. Arthur Amos Noyes.

Prof. George Howard Parker.

Mr. A. Lawrence Rotch.

Prof. Svante A. Arrhenius.

Sir John Murray, K.C.B.

Newly-elected members signed the Laws and were admitted into the Society.

An obituary notice of Prof. Jakob H. van't Hoff was read by Harry C. Jones, Professor of Physical Chemistry, Johns Hopkins University.

Special Meeting, May 2, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Prof. George A. Barton.

Dr. W. M. Late Coplin.

Mr. Alba B. Johnson.

Prof. Leo S. Rowe.

newly-elected members signed the laws and were admitted into the society.

Stated Meeting, May 5, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Letters accepting membership were read from:

George A. Barton, A.M., Ph.D., Bryn Mawr, Pa.

Bertram Borden Boltwood, Ph.D., New Haven, Conn.

John Mason Clarke, Ph.D., LL.D., Albany, N. Y.

W. M. Late Coplin, M.D., Philadelphia.

John Dewey, Ph.D., LL.D., New York City.

Leland Ossian Howard, Ph.D., Washington, D. C.

Joseph P. Iddings, Sc.D. (Yale, 1907), Chicago.

Alba B. Johnson, Rosemont, Pa.

Arthur Amos Noyes, Ph.D., Sc.D., LL.D., Boston.

George Howard Parker, S.D., Cambridge, Mass.

A. Lawrence Rotch, S.B., A.M. (Hon. Harvard), Boston.

Leo S. Rowe, Ph.D., LL.D., Philadelphia.

William T. Sedgwick, Ph.D., Hon. Sc.D. (Yale, 1909), Brookline, Mass.

Augustus Trowbridge, Ph.D. (Berlin), Princeton, N. J.

Svante Auguste Arrhenius, Stockholm.

Sir John Murray, K.C.B., F.R.S., LL.D., Sc.D., Edinburgh.

The following papers were read:

Obituary notice of Prof. George F. Barker, by Prof. Elihu Thomson, of Swampscott, Mass.

"The Lignite Coals of the United States and their Utilization," by Joseph A. Holmes, Director of the Bureau of Mines, Washington.

"William Rush—the First American Sculptor," by Edward H. Coates, Esq. (Introduced by Dr. W. W. Keen.)

Stated Meeting, October 6, 1911.

CHARLES L. DOOLITTLE, Sc.D., in the Chair.

Letters accepting membership were read from:

Edouarde Bornet, Paris.

Lewis Boss, Albany.

The decease of the following members was announced:

Edouard du Pont, at Cannes, France, on March 31, 1911, æt. 70.
Samuel Hubbard Scudder, at Cambridge, Mass., on May 17,
1911, æt. 74.

G. Johnstone Stoney, at London, Eng., on July 1, 1911, æt. 85.

James Christie, at Atlantic City, on August 24, 1911, æt. 71.

James Andrew March, at Easton, Pa., on September 9, 1911,
æt. 86.

Francis Jordan, Jr., at Point Pleasant, N. J., on September 12,
1911, æt. 68.

Pierre Emile Levasseur, at Paris, æt. 82.

Stated Meeting, November 3, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease of the following members was announced:

A. B. Meyer, at Berlin, æt. 71.

Henry C. McCook, at Devon, Pa., on October 31, 1911, æt. 74.

The following papers were read:

"Factors Affecting Changes in Body-Weight," by Francis G.
Benedict.

"Formation of Coal Beds—Some Elementary Problems," by
John J. Stevenson.

Stated Meeting, December 1, 1911.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of:

George F. Dunning, at York Cliffs, Me., on June 26, 1910,
æt. 93.

Mr. Arthur L. Day read a paper on "Geophysical Research."